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(71) Applicant (for all designated States except US): SAND-
VIK INTELLECTUAL PROPERTY AB [SE/SE]; S-811
81 Sandviken (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): NILSSON, Jonas?
[SE/SE]; Seegatan 9 B, S-811 33 Sandviken (SE). ROS-
BERG, Andreas [SE/SE]; Skomakargatan 24, S-803 23
Gävle (SE).

(74) Agent: MELIN, Linda; Sandvik AB, Intellectual Prop-
erty, S-811 81 Sandvik (SE).

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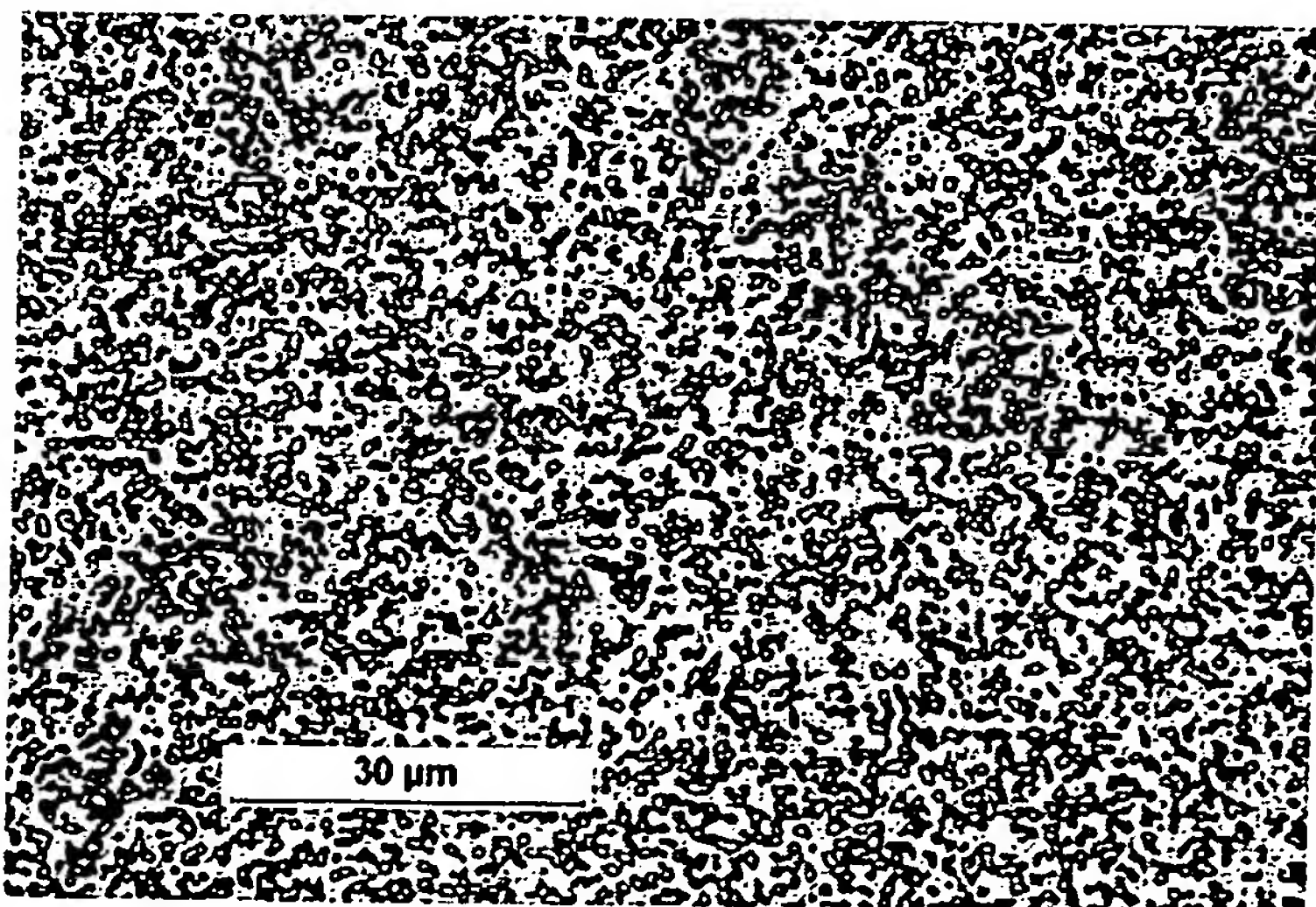
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(54) Title: STEEL ALLOY FOR CUTTING DETAILS



(57) Abstract: The invention relates
to a steel alloy of the following
composition (in % by weight) C
0.40-0.60 Si 0.1-1.0 Mn 0.3-1.0 Cr
12-15 Mo 2.5-4.0 Ni 0-1.0 Co 0-4.0
N 0.15-0.20, with the balance Fe as
well as normally occurring impurities.
the hardness being > 56 HRC, which
has been attained without deep
freezing, as well as PRE > 25, defined
as PRE = % Cr + 3,3 • % Mo + 16
• % N. Furthermore, the steel alloy
comprises carbides, nitrides and/or
carbonitrides the maximal diameter
of which does not exceed 5 μm. This
steel alloy has turned out surprisingly
well suitable as edge material for a
plurality of cutting operations.

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